

## (12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
14 October 2004 (14.10.2004)

PCT

(10) International Publication Number  
**WO 2004/087662 A1**

(51) International Patent Classification<sup>7</sup>: **C07D 211/70**,  
405/12, A61K 31/4409, A61P 25/00

New Jersey 07450 (US). **KEHLER, Jan** [DK/DK];  
Nymøllevej 28, Kgs. Lyngby, 2800 (DK).

(21) International Application Number:  
PCT/DK2004/000243

(22) International Filing Date: 2 April 2004 (02.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
PA200300518 4 April 2003 (04.04.2003) DK  
60/460,266 4 April 2003 (04.04.2003) US

(71) Applicant (for all designated States except US):  
**H. LUNDBECK A/S** [DK/DK]; Ottiliavej 9, 2500  
Valby-Copenhagen (DK).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **PÜSCHL**, Ask  
[DK/DK]; Holger Danskes Vej 20, 4. Sal, Frederiksberg,  
2000 (DK). **BANG-ANDERSEN, Benny** [DK/DK];  
Lillegrund 33, Copenhagen S, 2300 (DK). **JØRGENSEN,**  
**Morten** [DK/DK]; Godtgemt 24, 1, -3, Bagsværd, 2880  
(DK). **JUHL, Karsten** [DK/DK]; Badensgade 13, st.  
tv, København S, 2300 (DK). **RUHLAND, Thomas**  
[DE/DK]; Østergaards Allé 16, Valby, 2500 (DK). **AN-**  
**DERSEN, Kim** [DK/US]; 744 Fernwood Ct, Ridgewood,

(81) Designated States (unless otherwise indicated, for every  
kind of national protection available): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

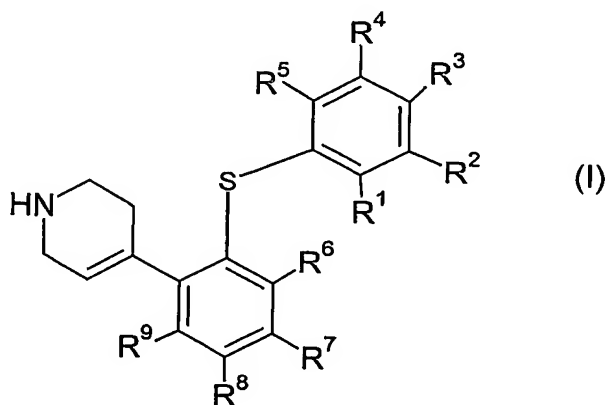
(84) Designated States (unless otherwise indicated, for every  
kind of regional protection available): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),  
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-  
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,  
GB, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,  
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,  
ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-  
ance Notes on Codes and Abbreviations" appearing at the begin-  
ning of each regular issue of the PCT Gazette.

(54) Title: 4-(2-PHENYLSULFANYL-PHENYL)-1,2,3,6-TETRAHYDROPYRIDINE DERIVATIVES AS SEROTONIN REUP-  
TAKE INHIBITORS



(57) Abstract: The invention provides compounds represented  
by the general formula (I) wherein the substituents are defined  
in the application. The compounds are useful in the treatment  
of an affective disorder, including depression, anxiety disorders  
including general anxiety disorder and panic disorder and obses-  
sive compulsive disorder.